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# TRANSMITTAL FORM

(to be used for all correspondence after initial filing)

Application Number	10/021,663	
Filing Date	10/23/2001	
First Named Inventor	Mann et al.	
Group Art Unit	1724	
Examiner Name	I. Cintins	
Attorney Docket Number	LIT-PI-544	

Total Number of Pag	es in This Submission	n I Attorne	Docket Numbe	LIT-PI-544
		ENCLOSUR	ES (check	all that apply)
Fee Transmittal Form		Assignment Pape (for an Application	rs )	After Allowance Communication to Group
Fee Attached		Drawing(s)		Appeal Communication to Board of Appeals and Interferences
Amendment / Reply		Licensing-related	Papers	Appeal Communication to Group (Appeal Notice, Brief, Reply Brief)
After Final	<u> </u>	Petition Petition to Conver	t to a	Proprietary Information
Affidavits/declarati	ion(s)	Provisional Applic	ation	Status Letter
Extension of Time Reque	st	Power of Attorney Change of Corres Address	pondence	Other Enclosure(s) (please identify below):
Express Abandonment Re	equest	Terminal Disclaim Request for Refu		Return Receipt Postcard
Information Disclosure St	atement	CD, Number of C	D(s)	
Certified Copy of Priority Document(s)	Re	emarks		
Response to Missing Part Incomplete Application	ts/	•		
Response to Missi under 37 CFR 1.52				
	SIGNATURE	OF APPLICANT, A	TTORNEY, OR	AGENT
Firm or Stell	phen R. Christ	tian Registrati	on No.: 32,6	87
Signature	the	2 Chu	H	
Date	11 Dec	_ 200	3	
	С	ERTIFICATE OF	MAILING	
I hereby certify that this correspondable in an envelope addressed to	ndence is being depo : Commissioner for P	osited with the United Statents, Washington, C	States Postal Servi OC 20231 on this d	ice with sufficient postage as first class ate: 12/11/03
Typed or printed name	Mandy Landon	^		

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Date

PTO/SB/17 (10-01)

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Complete if Known				
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Examiner Name	I. Cintins			
Group Art Unit	1724			
Attorney Docket No.	LIT-PI-544			

METHOD OF PAYMENT	FEE CALCULATION (continued)	
The Commissioner is hereby authorized to charge indicated fees and credit any every authorized to:	3. ADDITIONAL FEES	
Deposit OS OSOS	Large Small	
Account 05-0565 Number	Entity Entity Fee Fee Fee Fee Fee Description	Fee Paid
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Account Name	105 130 205 65 Surcharge - late filing fee or oath	
Charge Any Additional Fee Required Under 37 CFR 1.16 and 1.17	127 50 227 25 Surcharge - late provisional filing fee or cover sheet	
Applicant claims small entity status.	139 130 139 130 Non-English specification	0
See 37 CFR 1.27	147 2,520 147 2,520 For filing a request for ex parte reexamination	١
2. Payment Enclosed:	112 920* 112 920* Requesting publication of SIR prior to	
Check Credit card Money Other	Examiner action	
FEE CALCULATION	113 1,840* 113 1,840* Requesting publication of SIR after Examiner action	<u> </u>
1. BASIC FILING FEE	115 110 215 55 Extension for reply within first month	
Large Entity Small Entity	116 400 216 200 Extension for reply within second month	
Fee Fee Fee Fee Description Code (\$) Code (\$) Fee Paid	117 920 217 460 Extension for reply within third month	
101 740 201 370 Utility filing fee	118 1,440 218 720 Extension for reply within fourth month	
106 330 206 165 Design filing fee	128 1,960 228 980 Extension for reply within fifth month	
107 510 207 255 Plant filing fee	119 320 219 160 Notice of Appeal	
108 740 208 370 Reissue filing fee	120 320 220 160 Filing a brief in support of an appeal	
114 160 214 80 Provisional filing fee	121 280 221 140 Request for oral hearing	
SUBTOTAL (4) (C)	138 1,510 138 1,510 Petition to institute a public use proceeding	
SUBTOTAL (1) (\$)	140 110 240 55 Petition to revive - unavoidable	
2. EXTRA CLAIM FEES Fee from	141 1,280 241 640 Petition to revive - unintentional	
Extra Claims below Fee Paid	142 1,280 242 640 Utility issue fee (or reissue)	
Total Claims20** = X 18.00 = Independent x 96.00	143 460 243 230 Design issue fee	
Claims -3 ^	144 620 244 310 Plant issue fee	
Multiple Dependent =	122 130 122 130 Petitions to the Commissioner	
Large Entity Small Entity	123 50 123 50 Processing fee under 37 CFR 1.17(q)	
Fee Fee Fee Fee Description	126 180 126 180 Submission of Information Disclosure Stmt	180.00
Code (\$)	581 40 581 40 Recording each patent assignment per property (times number of properties)	
102 84 202 42 Independent claims in excess of 3 104 280 204 140 Multiple dependent claim, if not paid	146 740 246 370 Filing a submission after final rejection (37 CFR § 1.129(a))	
109 84 209 42 ** Reissue independent claims over original patent	149 740 249 370 For each additional invention to be examined (37 CFR § 1.129(b))	
110 18 210 9 ** Reissue claims in excess of 20	179 740 279 370 Request for Continued Examination (RCE)	
and over original patent	169 900 169 900 Request for expedited examination	
SUBTOTAL (2)	of a design application Other fee (specify)	
**or number previously paid, if greater, For Reissues, see above	*Reduced by Basic Filing Fee Paid SUBTOTAL (3) (\$) 18	30.00

SUBMITTED BY	This is a second control of the second contr	and the second s	Complete (i	f applicable)
Name (Print/Type)	Stephen R. Christian	Registration No. (Attorney/Agent) 32,687	Telephone	208-526-9140
Signature	Softe RCQ X		Date	11 DEC 2003





#### IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of:

Mann et al.

Serial No.: 10/021,663

Filed: October 23, 2001

For: COMPOSITE MEDIA FOR ION

PROCESSING

Confirmation No.: 5564

**Examiner:** I. Cintins

**Group Art Unit: 1724** 

**Attorney Docket No.:** LIT-PI-544

CERTIFICATE OF MAILING

I hereby certify that this correspondence along with any attachments referred to or identified as being attached or enclosed is being deposited with the United States Postal Service as First Class Mail on the date of deposit shown below with sufficient postage and in an envelope addressed to the Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

12/11/2003

Date

Mandy Landon

Name (Type/Print)

## SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT

Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

Sir:

In compliance with the duty to disclose information material to patentability pursuant to 37 C.F.R. § 1.56, it is respectfully requested that this Supplemental Information Disclosure Statement be entered and the documents listed on attached Form PTO-1449 or PTO/SB/08 be considered by the Examiner and made of record. Copies of the listed documents are enclosed pursuant to 37 C.F.R. § 1.98(a).

In accordance with 37 C.F.R. § 1.97(g) and (h), filing of this Supplemental Information Disclosure Statement is not to be construed as a representation that a search has been made or an admission that the information cited herein is, or is considered to be, material to patentability as

defined in 37 C.F.R. § 1.56(b). Further, no representation is made by Applicants herein that no other possible material information as defined in 37 C.F.R. § 1.56 (b) exists.

### **U.S.** Patent Documents

U.S. Patent No.	Publication Date	<u>Patentee</u>
US - 4,548,790	10/1985	Horwitz et al.
US - 4,683,124	07/1987	Muscatello et al.
US - 4,826,604	05/1989	Faubel et al.
US - 4,835,107	05/1989	Horwitz et al.
US - 5,169,609	12/1992	Horwitz et al.
US - 5,637,506	06/1997	Goken et al.

#### Other Documents

MUSCATELLO et al., Chem. Sep., vol. 2, pp. 439-48, 1986.

MUSCATELLO et al., ACS Symp. Ser., 347, pp. 182-9, 1987.

SEBASTA et al., J. Radiooanal. Nucl. Chem. 140(1), pp. 15-21, 1990.

SCHULTE et al., Sep. Sci. Technol., 30(7-9), pp. 1833-47, 1995.

LUMETTA et al., Solvent Extr. Ion Exch., 14(1), pp. 35-60, 1996.

SCHULTE et al., Proc. Embedded Top Meet. DOE Spent Nucl. Fuel Fissile Mater. Manage., pp. 418-427, 1996.

SEBESTA et al., R. Soc. Chem., 182, pp. 346-354, 1996.

MILLER et al., Sep. Sci. Technol., 32(1-4), pp. 37-50, 1997.

SEBESTA et al., Acta Polytech., 38(3), pp. 119-120, 1998.

BREWER et al., Czech. J. Phys. 49, pp. 959-964, 1999.

JOHN et al., NATO Sci. Ser., Ser. 2, 53, pp. 155-168, 1999.

Applicants offer to supply any explanation or discussion of the documents which the Examiner feels is necessary or desirable and which is requested.

This Supplemental Information Disclosure Statement is filed after the mailing date of the first Office Action on the merits.

The fee pursuant to 37 C.F.R. § 1.17(p) is enclosed.

Respectfully submitted,

Stephen R. Christian Registration No. 32,687 Attorney for Applicants

P.O. Box 1625

Idaho Falls, ID 83415-3899

Phone: (208) 526-9140 Fax: (208) 526-8339

Date: 12/11/2003

Enclosures: Form PTO-1449 or PTO/SB/08

Copy of documents cited

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Under the Panerwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number. Substitute for form 1449A/PTO Complete if Known 10/021,663 Application Number INFORMATION DISCLOSURE Filing Date October 23, 2001 ATEMENT BY APPLICANT First Named Inventor Mann et al. 1724 Group Art Unit (use as many sheets as necessary) Examiner Name I. Cintins LIT-PI-544

Attorney Docket Number

		Document Number	U.S. PATENT D	Name of Patentee or Applicant of		
Examiner Initials *	Cite No.1	Number - Kind Code <sup>2</sup> (if known)  Publication Date MM-DD-YYYY		Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	
		US-4,548,790	10/1985	Horwitz et al.		
		US- 4,683,124	07/1987	Muscatello et al.		
		US- 4,826,604	05/1989	Faubel et al.		
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		US- 5,637,506	06/1997	Goken et al.		
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Initials*	No.1	Country Code <sup>3</sup> - Number <sup>4</sup> - Kind Code <sup>5</sup> (if known)	Publication Date MM-DD-YYYY	Applicant of Cited Document	Where Relevant Passages or Relevant Figures Appear	T <sup>e</sup>

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<sup>\*</sup>EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>&</sup>lt;sup>1</sup> Applicant's unique citation designation number (optional). <sup>2</sup> See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. that issued the document, by the two-letter code (WIPO Standard ST.3). 4 For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. 5 Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. <sup>6</sup> Applicant is to place a check mark here if English language Translation is attached.



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Substitute for form 1449A/PTO

# INFORMATION DISCLOSURE STATEMENT BY APPLICANT

Complete if Known				
Application Number	10/021,663			
Filing Date	October 23, 2001			
First Named Inventor	Mann et al.			
Group Art Unit	1724			
Examiner Name	I. Cintins			
Attorney Docket Number	LIT DL 544			

		OTHER PRIOR ART NON PATENT LITERATURE DOCUMENTS		
Examiner Initials *	Cite No.1	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.		
		MUSCATELLO et al., Chem. Sep. vol. 2, pp. 439-48, 1986.		
		MUSCATELLO et al., ACS Symp. Ser., 347, pp. 182-9, 1987.		
		SEBASTA et al., J. Radiooanal. Nucl. Chem. 140(1), pp. 15-21, 1990.		
		SCHULTE et al., Sep. Sci. Technol., 30(7-9), pp. 1833-47, 1995.		
		LUMETTA et al., Solvent Extr. Ion Exch., 14(1), pp. 35-60, 1996.		
		SCHULTE et al., Proc. Embedded Top Meet. DOE Spent Nucl. Fuel Fissile Mater. Manage., pp. 418-427, 1996.		
		SEBESTA et al., R. Soc. Chem., 182, pp. 346-354, 1996.		
		MILLER et al., Sep. Sci. Technol., 32(1-4), pp. 37-50, 1997.		
		SEBESTA et al., Acta Polytech., 38(3), pp. 119-120, 1998.		
		BREWER et al., Czech. J. Phys. 49, pp. 959-964, 1999.		
		JOHN et al., NATO Sci. Ser., Ser. 2, 53, pp. 155-168, 1999.		

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Examiner	Date
Signature	Considered

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<sup>&</sup>lt;sup>1</sup> Unique citation designation number (optional). <sup>2</sup> Applicant is to place a check mark here if English language Translation is attached.